L Number	Hits	Search Text	DB	Time stamp
1	$\frac{1}{1}$	(al aluminum) near (cr\$lni ni\$1cr) same	USPAT;	2004/07/07
2	12	bonding same electrode (al aluminum) with (cr\$lni ni\$1cr) same	EPO; JPO USPAT;	10:18
2	12	bonding same electrode	EPO; JPO	10:18
51	. 0	ultrasonic with electrode and (al	USPAT;	2004/07/07
52	1	aluminum) near (cr\$lni ni\$lcr) ultrasonic with bonding and (al aluminum)	EPO; JPO USPAT;	11:45
32	1	near (cr\$1ni ni\$1cr)	EPO; JPO	11:45
53	1	ultrasonic same bonding and (al aluminum)	USPAT;	2004/07/07
54	11	near (cr\$1ni ni\$1cr) (ultrasonic heat) same bonding and (al	EPO; JPO USPAT;	11:47
		aluminum) near (cr\$1ni ni\$1cr)	EPO; JPO	12:15
55	6940	228/1.1, 110.1, 189.22.ccls.	USPAT; EPO; JPO	2004/07/07
56	1	(228/1.1, 110.1, 189.22.ccls.) and (al	USPAT;	2004/07/07
	70	aluminum) with (cr\$1ni ni\$1cr)	EPO; JPO	12:18
57	78	(228/1.1, 110.1, 189.22.ccls.) and electrode with (al aluminum)	USPAT; EPO; JPO	2004/07/07
-	8	(surface adj1 acoustic).ti. and	USPAT;	2003/05/30
_	19	(taga).in. saw and electrode and (nicr or crni) and	US-PGPUB USPAT;	10:39
		(au gold) and (al or aluminum)	EPO; JPO;	11:31
1			DERWENT;	
_	8	 surface adj1 acoustic adj1 wave and	IBM_TDB USPAT;	2003/05/30
		electrode and (nicr or crni) and (au	EPO; JPO;	11:34
		gold) and (al or aluminum)	DERWENT; IBM TDB	
-	49	piezoelectric and electrode and (nicr or	USPAT;	2003/05/30
		crni) and (au gold) and (al aluminum)	EPO; JPO; DERWENT;	11:40
		·	IBM_TDB	
-	103		USPAT;	2003/05/30
		crni) and (au gold) and (al aluminum)	EPO; JPO; DERWENT;	11:41
	0.5		IBM_TDB	2222 /25 /22
	85	orientat\$3 and electrode and (nicr or crni) and (au gold) and (al aluminum) and	USPAT; EPO; JPO;	2003/05/30
		reduc\$3	DERWENT;	
- -	218	 bond\$3 and substrate and electrode and	IBM_TDB USPAT;	2003/05/30
ı		(nicr or crni) and (au gold) and (al	EPO; JPO;	14:04
		aluminum)	DERWENT; IBM TDB	
	189	(bond\$3 and substrate and electrode and	USPAT;	2003/05/30
		(nicr or crni) and (au gold) and (al	EPO; JPO;	11:48
		aluminum)) and (heat\$3 or ultrasonic)	DERWENT; IBM TDB	
-	10	("3891873" "4259607" "4692653"	USPAT	2003/05/30
		"5108950" "5440125" "5699027" "5844347" "5991989" "6028011"		12:07
		"6137184").PN.		
-	. 11	("5058800" "5459368" "5699027" "5712523" "5821665" "5991989"	USPAT	2003/05/30 13:38
		"6131257" "6246013" "6321444"		13.30
		"6329739" "6369490" "2002/0003459").PN.		
-	6	, ,	USPAT	2003/05/30
		"4477952" "4736128" "5325012").PN.		13:49
-	3	crack\$3 and bond\$3 and substrate and electrode and (ni\$1cr or cr\$1ni) and gold	USPAT; EPO; JPO;	2003/05/30 14:13
		with bump and aluminum	DERWENT;	=
_	11	 ("3597269" "3767492" "3771218"	IBM_TDB USPAT	2003/05/30
		"3853496" "3985597" "4001870"	301111	14:12
		"4001871" "4017866" "4039371" "4040083" "4926238").PN.		
-	6	5391915.URPN.	USPAT	2003/05/30
				14:12

-	0	bond\$3 and reduc\$3 with orientat\$3 and	USPAT;	2003/05/30
		electrode and (ni\$1cr or cr\$1ni) and gold with bump and aluminum	EPO; JPO; DERWENT;	14:14
		with bump and araminam	IBM TDB	
-	0		USPAT;	2003/05/30
		(ni\$1cr or cr\$1ni) and gold with bump and	EPO; JPO;	14:15
		aluminum	DERWENT;	
	2	bond\$3 and diffract\$3 and electrode and	IBM_TDB USPAT;	2003/05/30
		(ni\$1cr or cr\$1ni) and gold and bump and	EPO; JPO;	14:16
		aluminum	DERWENT;	
			IBM_TDB	
-	1	bond\$3 and intermediate with electrode and (ni\$1cr or cr\$1ni) and gold and (bump	USPAT;	2003/05/30
		ball) and aluminum	EPO; JPO; DERWENT;	14:19
1		bally and alaminan	IBM TDB	
-	17		USPAT;	2003/05/30
		(ni\$1cr or cr\$1ni) and gold and (bump	EPO; JPO;	14:20
		ball) and aluminum	DERWENT; IBM TDB	
_	72	intermediate and electrode and (ni\$1cr or	USPAT;	2003/05/30
		cr\$1ni) and gold and aluminum	EPO; JPO;	14:43
			DERWENT;	
 _	150	logking add1 gy	IBM_TDB	2002/05/20
-	150	locking adj1 curve	USPAT; EPO; JPO;	2003/05/30
	1		DERWENT;	13.37
			IBM_TDB	
-	36	(locking adj1 curve) and electrode	USPAT;	2003/05/30
			EPO; JPO;	14:43
			DERWENT; IBM TDB	
_	3	4182793.URPN.	USPAT	2003/05/30
				14:47
- .	428	lock\$3 adj1 curv\$3	USPAT;	2003/05/30
'			EPO; JPO; DERWENT;	14:48
		·	IBM TDB	
-	1	(====================================	USPAT;	2003/05/30
		adj1 electrode	EPO; JPO;	14:49
			DERWENT; IBM TDB	
_	11	(lock\$3 adj1 curv\$3) and intermediat\$1	USPAT;	2003/05/30
		and electrode	EPO; JPO;	14:50
			DERWENT;	
_	710	clostrode and /humn and hall's and males	IBM_TDB	2002/05/20
_	712	electrode and (bump pad ball) and melt\$3 adjl point and gold and aluminum and	USPAT; EPO; JPO;	2003/05/30 14:52
		(nickel crome)	DERWENT;	
		·	IBM_TDB	
-	18	electrode and (bump pad ball) and melt\$3	USPAT;	2003/05/30
		adj1 point and gold and aluminum and (ni\$1cr cr\$1ni)	EPO; JPO; DERWENT;	14:57
		\	IBM TDB	1
-	346		USPAT;	2003/05/30
		adj1 point and gold and aluminum and	EPO; JPO;	15:00
		nickel and chromium	DERWENT; IBM TDB	· · ·
_	126	(electrode and (bump pad ball) and melt\$3	USPAT;	2003/05/30
		adjl point and gold and aluminum and	EPO; JPO;	15:00
		nickel and chromium) and intermediat\$3	DERWENT;	
l _	103	((electrode and (bumn mad hall) and	IBM_TDB	2003 (05 /20
-	103	((electrode and (bump pad ball) and melt\$3 adj1 point and gold and aluminum	USPAT; EPO; JPO;	2003/05/30 15:00
		and nickel and chromium) and	DERWENT;	
		intermediat\$3) and bond\$3	IBM_TDB	
-	43		USPAT;	2003/12/03
_	0	cr\$1ni) and (al aluminum) with alloy 54128280.URPN.	EPO; JPO USPAT	15:57 2003/12/03
1		31123233. ONEW.	OPENT	15:57
<u> </u>				1

	471	electrode and (crni nicr ni\$1cr cr\$1ni)	USPAT;	2003/12/03
	7/1	· · · · · · · · · · · · · · · · · · ·		
		and (al aluminum) and alloy and bond\$3	EPO; JPO	17:15
-	434	(electrode and (crni nicr ni\$1cr cr\$1ni)	USPAT;	2003/12/03
		and (al aluminum) and alloy and bond\$3)	EPO; JPO	16:01
		and (heat\$3 ultrasonic)		
-	360	((electrode and (crni nicr ni\$1cr cr\$1ni)	USPAT;	2003/12/03
		and (al aluminum) and alloy and bond\$3)	EPO; JPO	16:01
		and (heat\$3 ultrasonic)) and substrate		
_	8	("5900643" "6104597" "6166424"	USPAT	2003/12/03
		"6178082" "6208500" "6226171"		16:03
		"6278153" "6282079").PN.		
_	2	("5958576" "6159593").PN.	USPAT	2003/12/03
		, , , , , , , , , , , , , , , , , , , ,		16:10
_	28	piezoelectric and electrode and (crni	USPAT;	2003/12/03
		nicr ni\$1cr cr\$1ni) and (al aluminum) and	EPO; JPO	17:16
		alloy and bond\$3		
_	1	6369490.pn.	USPAT;	2004/07/06
	-		EPO; JPO	13:57